Q-185R2

SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – FORD PRO BODY BUILDERS ADVISORY SERVICE

Website: https://www.fordpro.com/en-us/upfit/publications/

FORD VEHICLES WITH COMPRESSED NATURAL GAS FUEL SYSTEM CONVERSIONS

REVISION	UPDATE	REVISION DATE
Q-185R2	UPDATED GUIDANCE FOR COMPRESSED NATURAL GAS & PROPANE KITS EMISSION COMPLIANCE, AND Q185 TESTING RESULTS/COMPLAINCE WITH RESPECT TO FORD ENGINE WARRANTY.	27MAR2024
Q-185R1	ADDED CONTENT	28FEB2011

MODEL(S) AFFECTED:
2020MY & BEYOND CNG MODELS WITH GASEOUS FUEL PREP (GFP) ENGINES

ISSUE / DESCRIPTION:
Action Requested: Please provide a copy of this bulletin to all Engineering, Manufacturing, Service, Parts, Sub-Contractors, and Customers involved in the fuel system conversion of Ford vehicles to Compressed Natural Gas (CNG).

Background/Purpose:
The purpose of this bulletin is to provide requirements for vehicle Compressed Natural Gas (CNG) fuel system conversions and engine operating limits to maintain. Failure to adhere to these requirements could void the Ford Motor Company Engine Warranty for parts affected by the modifications. In addition, Final Stage Manufacturer and/or Alternative Fuel Kit Developer who participate in Ford Pro Upfitter Program must ensure that CNG fuel system conversions on vehicles that they complete or modify meet these requirements.

Requirements for Conversion:

- Must be a CNG conversion kit. Liquid Propane Gas (LPG) will not be supported under Ford Motor Company Engine Warranty.
- If vehicles are modified with CNG, the Modifier (Final Stage Manufacturer and/or Alternative Fuel Kit Developer, Body Builder, Installer, Alterer, or Subsequent Stage Manufacturer) is responsible for completing the emission compliance certification – US Federal, California, or Canadian emission requirements.
- If vehicles are modified with CNG, the Qualified Calibration Modifier (QCM) is responsible for performing Q185 test and must submit test results to Ford Motor Company (Commercial Vehicle Applications Engineering) for the Ford Engine Warranty to still be in effect. Failure on completing Q185 testing and/or not submitting the results of testing will VOID Ford Motor Company Engine Warranty.
- Currently, there are no CNG kit manufacturers that that have undertaken Q185 testing for the 7.3 and 6.8L Gas V8 engines.
- The Modifier (Final Stage Manufacturer and/or Alternative Fuel Kit Developer, Body Builder, Installer, Alterer, or Subsequent Stage Manufacturer) is responsible to notify the final customer of engine warranty impact of the CNG conversion. This also applies to LPG conversions as they are not covered under Ford Engine Warranty.
- Vehicles must be ordered with Gaseous Fuel Prep (GFP) capable engine. Ford Motor Company will not warranty the engine for failures due to fuel system conversions conducted on vehicles with engines that are not CNG capable.
- The Modifier is responsible for applicable F/CMVSS requirements. For CNG fueled vehicles, FMVSS 303/304 and CMVSS 301.1/301.2 apply.
- The Modifier is responsible for the warranty of the new fuel system added to the vehicle including CNG fuel tanks, lines, wiring, etc. and revised engine calibration. The Modifier should provide information to the customer that explains CNG fuel system operation and maintenance, identifies the unique components associated with the fuel system conversion, and proper contacts for parts and service for the CNG fuel system.